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=> b reg
FILE 'REGISTRY' ENTERED AT 16:57:27 ON 15 APR 2009
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STRUCTURE FILE UPDATES:   14 APR 2009  HIGHEST RN 1134418-75-9
DICTIONARY FILE UPDATES:  14 APR 2009  HIGHEST RN 1134418-75-9

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http://www.cas.org/support/stngen/stndoc/properties.html

=> d que sta l9
L6              STR

1
 C~~N~~C~~C~~N~~C
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 |                  |      15
 C 7                C 10   G1
 |                  |      ||
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 |                  |   13   14
 |                  |
 C~~~~~~~~~~~~~~~~~~C
9                    12


VAR G1=O/S
REP G2=(1-3) C
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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  15

STEREO ATTRIBUTES: NONE
L9          438 SEA FILE=REGISTRY SSS FUL L6

100.0% PROCESSED    1557 ITERATIONS                          438 ANSWERS
SEARCH TIME: 00.00.01



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L6              STR

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VAR G1=O/S
REP G2=(1-3) C
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STEREO ATTRIBUTES: NONE
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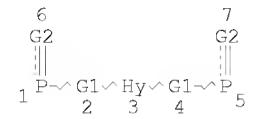

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100.0% PROCESSED 346 ITERATIONS 318 ANSWERS
SEARCH TIME: 00.00.01

=> b hcap
FILE 'HCAPLUS' ENTERED AT 16:57:38 ON 15 APR 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 15 Apr 2009 VOL 150 ISS 16
FILE LAST UPDATED: 14 Apr 2009 (20090414/ED)

HCAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

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http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d bib abs hitstr l26 tot

L26 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:39770 HCAPLUS
DN 148:145033
TI Preparation of gastrin-releasing peptide compounds as diagnostic imaging agents or radiotherapeutic agents and methods of their use for treating prostate cancer
IN Cappelletti, Enrico; **Lattuada, Luciano**; Linder, Karen E.; Marinelli, Edmund; Nanjappan, Palaniappa; Nunn, Adrian D.; Raju, Natarajan; **Ramalingam, Kondareddiar**; **Swenson, Rolf E.**; **Tweedle, Michael**; Maddalena, Mary Ellen
PA **Bracco** Imaging S.p.A., Italy
SO U.S. Pat. Appl. Publ., 218pp., Cont.-in-part of U.S. Ser. No. 352,156.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 6

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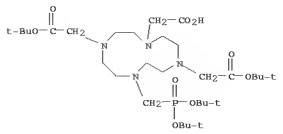
	2005US-000165721	A2	20050624			
	2006US-000352156	A2	20060210			
	2004WO-US0022115	W	20040712			

OS MARPAT 148:145033
AB The invention is related to novel gastrin-releasing peptide (GRP) compds. of formula M-N-O-P-G (M is an optical label or a metal chelator complexed with a radionuclide; N, P are null, an amino acid or other linking group; O is an amino acid; at least one of N, O, or P is a non-α-amino acid; G is a GRP receptor targeting peptide) which are useful as diagnostic imaging agents or radiotherapeutic agents. The invention is also related to methods for treating prostate tumors or of delaying the progression of prostate tumors, including, methods of treating bone or soft tissue metastases of prostate cancer, methods for treating hormone sensitive and hormone refractory prostate cancer, methods for delaying the progression of hormone sensitive prostate cancer, for facilitating combination therapy in patients with hormone sensitive prostate cancer and for decreasing aberrant vascular permeability in patients with hormone sensitive prostate cancer. Thus, DOTA-Gly-4-NHC6H4CO-L-Gln-L-Trp-L-Ala-L-Val-Gly-L-His-L-Leu-L-Met-NH2 (DOTA = 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid residue) was prepared by the solid-phase method and complexed with 177Lu for cell binding, biodistribution and aberrant vascular permeability in LNCaP tumors studies.
IT **808112-83-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of gastrin-releasing peptide compds. for use as diagnostic imaging agents or radio therapeutic agents)
RN 808112-83-6 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)

L26 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)



L26 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2006:1120611 HCAPLUS
DN 145:471863
TI Preparation of gastrin-releasing peptide compounds for use as diagnostic imaging agents or radio therapeutic agents
IN Cappelletti, Enrico; **Lattuada, Luciano**; Linder, Karen E.; Marinelli, Edmund; Nanjappan, Palaniappa; Nunn, Adrian D.; Raju, Natarajan; **Ramalingam, Kondareddiar**; **Swenson, Rolf E.**; **Tweedle, Michael F.**
PA **Bracco** Imaging S.p.A., Italy
SO U.S. Pat. Appl. Publ., 219pp., Cont.-in-part of U.S. Ser. No. 165,721.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 6

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	US-----7226577	B2	20070605			
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	US-20040253225	A1	20041216	2004US-000828925	20040420	<--
	US-20060018830	A1	20060126	2005US-000165721	20050624	<--
	IN---200602330	A	20070706	2006IN-000002330	20060626	
	WO--2007095443	A2	20070823	2007WO-US0061813	20070208	
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	2003WO-US0041328	A2	20031224			
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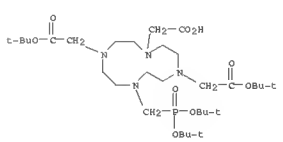
	2005US-000165721	A2	20050624			
	2004WO-US0022115	W	20040712			
	2006US-000352156	A	20060210			

OS MARPAT 145:471863
AB The invention relates to novel gastrin-releasing peptide (GRP) compds. which are useful as diagnostic imaging agents or radiotherapeutic agents. Compds. M-N-O-P-G (M is an optical label or a metal chelator complexed with a radionuclide; N, P are null, an amino acid or other linking group; O is an amino acid; at least one of N, O, or P is a non-α-amino acid; G is a GRP receptor targeting peptide) are claimed. Thus, DOTA-Gly-4-NHC6H4CO-L-Gln-L-Trp-L-Ala-L-Val-Gly-L-His-L-Leu-L-Met-NH2 (DOTA = 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid residue) was prepared by the solid-phase method and complexed with 177Lu and 111In for cell binding and biodistribution studies.
IT **808112-83-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of gastrin-releasing peptide compds. for use as diagnostic imaging agents or radio therapeutic agents)
RN 808112-83-6 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)

L26 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)



L26 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:1120488 HCAPLUS
DN 145:455273
TI Preparation of gastrin-releasing peptide compounds for use as diagnostic imaging agents or radio therapeutic agents
IN Cappelletti, Enrico
PA **Bracco** Imaging S.p.A., Italy
SO U.S. Pat. Appl. Publ., 156pp., Cont.-in-part of U.S. Ser. No. 341,577.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 6

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	US-20040136906	A1	20040715	2003US-000341577	20030113 <--
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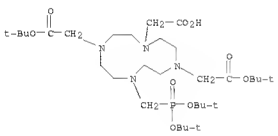
PRAI	2003US-000341577	A2	20030113 <--		
	2003WO-US0041328	W	20031224		
	2004WO-US0022115	W	20040712		

OS MARPAT 145:455273
AB The invention relates to novel gastrin-releasing peptide (GRP) compds. which are useful as diagnostic imaging agents or radiotherapeutic agents. These GRP compds. are labeled with radionuclides or labels detectable by in vivo light imaging and include the use of novel linkers between the label and the targeting peptide, which provides for improved pharmacokinetics. Compds. M-N-O-P-G (M is an optical label or a metal chelator, optionally complexed with a radionuclide; N, P are null, an amino acid or other linking group; O is an amino acid; at least one of N, O, or P is a non-α-amino acid; G is a GRP receptor targeting peptide) are claimed. Methods for imaging and/or providing radiotherapy or phototherapy to a patient using the compds. of the invention are also provided. Thus, DOTA-Gly-4-NHC6H4CO-L-Gln-L-Trp-L-Ala-L-Val-Gly-L-His-L-Leu-L-Met-NH2 (DOTA = 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid residue) was prepared by the solid-phase method and complexed with 177Lu and 111In for cell binding and biodistribution studies.
IT **808112-83-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of gastrin-releasing peptide compds. for use as diagnostic imaging agents or radio therapeutic agents)
RN 808112-83-6 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)



L26 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)

L26 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:79312 HCAPLUS
DN 144:171259
TI Preparation of gastrin-releasing peptide compounds for use in diagnostic imaging or therapy
IN Cappelletti, Enrico; **Lattuada, Luciano**; Linder, Karen E.; Marinelli, Edmund; Nanjappan, Palaniappa; Raju, Natarajan; **Ramalingam, Kondaraddiar**; **Swanson, Rolf E.**; **Twaddle, Michael**
PA **Bracco** Imaging S.p.A., Italy
SO U.S. Pat. Appl. Publ., 194 pp., Cont.-in-part of U.S. Ser. No. 828,925.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 6

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	US-20080008649	A1	20080110	2007US-000751337	20070521 <--
PRAI	2003US-000341577	A2	20030113 <--		
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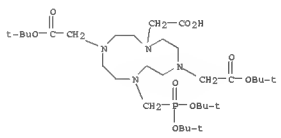
	2006US-000352156	A2	20060210		
	2006WO-US0024641	W	20060623		

OS MARPAT 144:171259
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to compds. M-N-O-P-G (M is a metal chelator, preferably an Aarta metal chelator or a derivative; N-O-P is a linker containing at least one non-α-amino acid and at least one substituted bile acid; G is the GRP receptor targeting peptide) for use in diagnostic imaging, radiotherapy or phototherapy. Thus, peptide I was prepared and its complex with 177Lu was evaluated for tumor targeting capacity, biodistribution and kinetics in the human PC-3 nude mouse model.
IT **808112-83-6P**

L26 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of gastrin-releasing peptide compds. for use in diagnostic imaging or therapy)
RN 808112-83-6 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)



L26 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:611952 HCAPLUS
DN 143:115578
TI Preparation of polyazamacrocyclic compounds useful as radiopharmaceutical imaging agents
IN **Tweedle, Michael; Fan, Hong; Lattuada, Luciano**
; Ramalingham, Kondareddiar; **Swanson, Rolf E.**
PA **Bracco** Imaging S.p.A., Italy
SO PCT Int. Appl., 69 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO--2005062828	A2	20050714	2004WO-US042710	20041220 <--
WO--2005062828	A3	20051229		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NG, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM				
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EP-----1699466	A2	20060913	2004EP-000814846	20041220 <--
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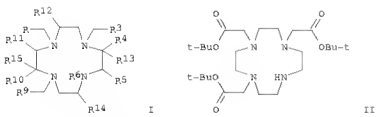
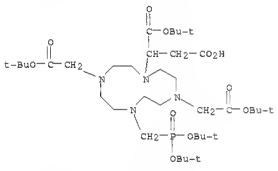
JP--2007516288	T	20070621	2006JP-000547204	20041220 <--
US-20080124270	A1	20080529	2006US-000584430	20060622 <--
PRAI 2003US-00532842P	P	20031223	<--	
2004WO-US042710	W	20041220		

OS CASREACT 143:115578; MARPAT 143:115578
GI

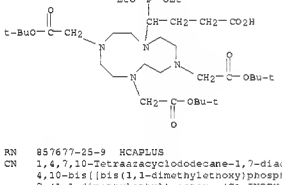


AB Polyazamacrocyclic compds. I [R, R3, R6, R9 = CH2P(O)(OH)2, CH2P(O)(OCMe3)2, MeCHP(O)(OH)2, CO2CMe3, CO2H, etc.; R10 = R11 = H; R4 = R5 and R10 = R11 = H, cyclic C3-C4 alkene; R12, R13, R14, R15 = Me, H; R = R3 = R9 = CO2CMe3, CO2H] are provided that may be used to chelate a metal. The polyazamacrocyclic compds. comprise at least one phosphonic group substituted on at least one of the aza groups. Methods for preparing the compds. are also provided. For example, reacting tetraazacyclododecane tris(1,1-dimethylethyl) ester II in DMF with dibenzylphosphite/HCHO resulted in a phosphinylmethyl moiety at the free aza position. This compound was treated with trifluoroacetic acid/anisole and Pd-C/H2 to give the triacetic acid derivative I [R = R3 = R9 = CO2H, R4 = R5 = R10 = R11 = R12 = R13 = R14 = R15 = H, R6 = CH2P(O)(OH)2]. Methods for preparing a diagnostic imaging agent using the compds. and methods for diagnostic imaging are furthner provided. Methods for preparing a therapeutic agent using the compds. and methods for therapy are further provided.
IT **677335-18-1P**
RL: DGN (Diagnostic use); RCT (Reactant); SPN (Synthetic preparation); THU

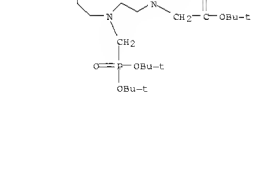
L26 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)



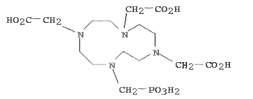
RN 857677-24-8 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[3-carboxy-1-(diethoxyphosphinyl)propyl]-, 1,4,7-tris(1,1-dimethylethyl) ester (CA INDEX NAME)



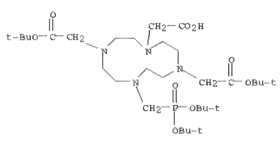
RN 857677-25-9 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,7-diacetic acid, 4,10-bis[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 7-(1,1-dimethylethyl) ester (CA INDEX NAME)



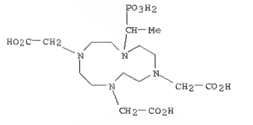
L26 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)
(Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of polyazamacrocyclic compds. as radiopharmaceutical imaging agents)
RN 677335-18-1 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-(phosphonomethyl)- (CA INDEX NAME)



IT **808112-82-6P 857677-09-9P 857677-21-5P**
857677-24-8P 857677-25-9P
RL: DGN (Diagnostic use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of polyazamacrocyclic compds. as radiopharmaceutical imaging agents)
RN 808112-83-6 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)



RN 857677-09-9 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-(1-phosphonoethyl)- (CA INDEX NAME)



RN 857677-21-5 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,7-diacetic acid, 4-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-10-[1-(carboxymethyl)-2-(1,1-dimethylethoxy)-2-oxoethyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)

L26 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:1081964 HCAPLUS
DN 142:56670
TI Preparation of gastrin-releasing peptide compounds for use as diagnostic imaging agents or radiotherapeutic agents
IN Cappelleti, Enrico; **Lattuada, Luciano**; Linder, Karen E.; Marinelli, Edmund; Nanjappan, Palaniappa; Raju, Natarajan; **Ramalingam, Kondareddiar; Swanson, Rolf E.**; **Tweedle, Michael**
PA Italy
SO U.S. Pat. Appl. Publ., 184 pp., Cont.-in-part of Appl. No. PCT/US03/41328.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 6

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US-20040253225	A1	20041216	2004US-000828925	20040420 <--
US-20040136906	A1	20040715	2003US-000341577	20030113 <--
US-----7226577	B2	20070605		
WO--2004065407	A2	20040805	2003WO-US041328	20031224 <--
WO--2004065407	A3	20040923		
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AU--2004314112	A1	20050728	2004AU-000314112	20040712
CA-----2549318	A1	20050728	2004CA-002549318	20040712
WO--2005067983	A1	20050728	2004WO-US0022115	20040712
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EP-----1706154	A1	20061004	2004EP-000777906	20040712
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CN-----1897980	A	20070117	2004CN-080038653	20040712
BR--2004018194	A	20070427	2004BR-000018194	20040712
JP--2008501627	T	20080124	2006JP-000546954	20040712
US-20060168830	A1	20060126	2005US-000165721	20050624 <--
US-20060239914	A1	20061026	2006US-000352156	20060210 <--
MX--2006007322	A	20060913	2006MX-000007322	20060623
KR---2006121244	A	20061128	2006KR-000712647	20060623
IN----200602330	A	20070706	2006IN-000002330	20060626
US-20080008649	A1	20080110	2007US-000751337	20070521 <--
PRAI 2003US-000341577	A1	20030113	<--	
2003WO-US041328	A2	20031224		
2004US-000828925	A	20040420		
2004WO-US0022115	W	20040712		
2005US-000165721	A2	20050624		
2006US-000352156	A2	20060210		

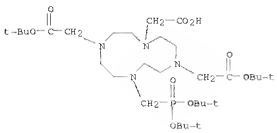
OS MARPAT 142:56670
AB The invention relates to novel radionuclide-labeled gastrin releasing peptide compds., useful as diagnostic imaging agents or radiotherapeutic agents, which use novel linkers between a metal chelator or optical label and the targeting peptide to provide for improved pharmacokinetics. Compds. M-N-O-P-G (M is an optical label or a metal chelator, optionally complexed with a radionuclide, N, P are O, an α- or non-α-amino acid or other linking group, O is an α- or non-α-amino acid or other linking group, and G is a GRP receptor targeting peptide) are claimed. Methods for imaging and/or providing radiotherapy to a patient using the compds. of the invention are also provided. Thus, DOTA-Gly-4-NHC6H4CO-L-Gln-L-Trp-L-Ala-L-Val-Gly-L-His-L-

L26 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)
Leu-L-Met-NH2 (DOTA = 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid residue) was prepd. by the solid-phase method and complexed with 177Lu and 111In for cell binding and biodistribution studies.

IT **808112-83-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of gastrin-releasing peptide compds. for use as diagnostic imaging agents or radiotherapeutic agents)

RN 808112-83-6 HCAPLUS

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)



L26 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2003:649405 HCAPLUS

DN 140:317544

TI Analytical methods applied in preparation of radiolabelled proteins and antibodies

AU Zimova, J.; Sykora, D.; Fahnrich, J.; Jedinakova-Krizova, V.

CS Department of Analytical Chemistry, Institute of Chemical Technology, Prague 6, CZ-166 28, Czech Rep.

SO Czechoslovak Journal of Physics (**2003**), 53(Suppl. A, Pt. 2), A803-A808
CODEN: CZYPAO; ISSN: 0011-4626

PB Institute of Physics, Academy of Sciences of the Czech Republic

DT Journal

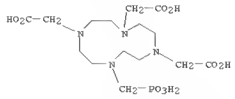
LA English

AB The concept of application of the radiolabeled antibodies in medicine has already proved its vitality. It is obvious that the synthesis and characterization of intermediates and final products necessitate utilization of wide variety of anal. methods. In this work we present our inceptive results we obtained in the development of chromatog. and spectrometric methods designated for routine anal. control of the synthetic procedure applicable in post-labeling synthesis of radiolabeled proteins/antibodies.

IT **677335-18-1**
RL: BUU (Biological use, unclassified); REM (Removal or disposal); BIOL (Biological study); PROC (Process); USES (Uses)
(bifunctional chelator; chromatog. separation of bifunctional chelators (BFC) from BFC-modified proteins and spectrophotometric detection of chelating agents)

RN 677335-18-1 HCAPLUS

CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-(phosphonomethyl)- (CA INDEX NAME)



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L40 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN
AN 1996:171792 HCAPLUS
DN 124:232499
OREF 124:43079a,43082a
TI Preparation of 1,4,7,10-tetraazacyclododecanes and multimers as chelating agents with enhanced relaxivity
IN Ranganathan, Ramachandran S.; Pillai, Radhakrishna; Ratsep, Peter C.; Shukla, Rajesh; Tweedle, Michael F.; Zhang, Xun
PA Bracco International B.V., Neth.
SO PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO-----9531444	A1	19951123	1995WO-IB0000337	19950509
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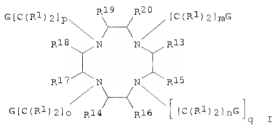
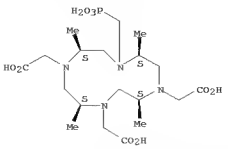
	US-----6693190	B1	20040217	1994US-000241253	19940511
	CA-----2164944	A1	19951123	1995CA-002164944	19950509
	EP-----708761	A1	19960501	1995EP-000915988	19950509
	EP-----708761	B1	20020814		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	CN-----1128534	A	19960807	1995CN-000190415	19950509
	JP-----09500660	T	19970121	1995JP-000529486	19950509
	AT-----222244	T	20020815	1995AT-000915988	19950509
	NO-----9600115	A	19960305	1996NO-000000115	19960110
	US-20040131551	A1	20040708	2003US-000741872	20031219
PRAI	1994US-000241253	A	19940511		
	1995WO-IB0000337	W	19950509		
OS	MARPAT 124:232499				
GI					



AB Title compds. [I; m, n, o, p = 1, 2; q = 0, 1; G = CO2R2, P(O)(OR2)2, P(O)(OR2)R2, CON(R2)2; R1 = H, (substituted) alkyl, alkoxy, cycloalkyl, hydroxyalkyl, aryl; R2 = H; R13-R20 = H, alkyl, hydroxyalkyl, alkoxyalkyl, group capable of forming a conjugate with a biomol. or of forming a multimer compound; R13R15, R17R18 = atoms to form a (substituted) (unsatd.) cyclohexyl ring; with provisos], and metal chelates thereof, were prepared as diagnostic imaging agents capable of exhibiting an immobilized relaxivity of about 60-200 mM-1s-1 (no data). Thus, 1,4,7,10-tetraazacyclododecane-1,4,7-triacetic acid was refluxed 27.5 h with phosphorus acid and formaldehyde in concentrate aqueous HCl to give 47% 10-phosphonomethyl-1,4,7,10-tetraazacyclododecane-1,4,7-triacetic acid, which was stirred with Gd2O3 in aqueous NaOH at pH 4 to give the Gd salt.
IT **174603-36-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 1,4,7,10-tetraazacyclododecanes and multimers as chelating agents with enhanced relaxivity)
RN 174603-36-2 HCAPLUS
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid,

L40 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)
2,5,8,11-tetramethyl-10-(phosphonomethyl)-, [2S-(2R*,5R*,8R*,11R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 16:58:20 ON 15 APR 2009
CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 16:58:20 ON 15 APR 2009
CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitstr l53 tot
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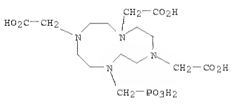
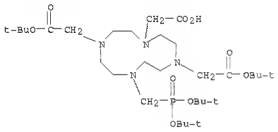
L53 ANSWER 1 OF 6 USPATFULL on STN
AN 2008:143037 USPATFULL
TI Compounds Useful as Metal Chelators
IN **Tweedle, Michael F.**, Princeton, NJ, UNITED STATES
Fan, Hong, Plainsboro, NJ, UNITED STATES
Lattuada, Luciano, Bussero, ITALY
Ramalingam, Kondareddiar, Dayton, NJ, UNITED STATES
Swenson, Rolf E., Princeton, NJ, UNITED STATES
PA **BRACCO** IMAGING S.P.A., MILAN ITALY, ITALY (non-U.S. corporation)
PI US-20080124270 A1 20080529
AI 2004US-000584430 A1 20041220 (10)
2004WO-US0042710 20041220
20060622 PCT 371 date
PRAI 2003US-000532842P 20031223 (60) <--
DT Utility
FS APPLICATION
LREP KRAMER LEVIN NAFTALIS & FRANKEL LLP, INTELLECTUAL PROPERTY DEPARTMENT, 1177 AVENUE OF THE AMERICAS, NEW YORK, NY, 10036, US
CLMN Number of Claims: 17
ECL Exemplary Claim: 1-23
DRWN No Drawings
LN.CNT 1830
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB New compounds are provided that may be used to chelute a metal. The compound comprise polyazamacrocyclic compound with at least one phosphonic group substituted on at least one of the aza groups of the polyazamacrocyclic compound. Methods for preparing the compounds are also provided. Methods for preparing a diagnostic imaging agent using the compounds and methods for diagnostic imaging are further provided. Methods for preparing a therapeutic agent using the compounds and methods for therapy are further provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **677335-18-1P**
(preparation of polyazamacrocyclic compds. as radiopharmaceutical imaging agents)
RN 677335-18-1 USPATFULL
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-(phosphonomethyl)- (CA INDEX NAME)



L53 ANSWER 2 OF 6 USPATFULL on STN (Continued)



L53 ANSWER 2 OF 6 USPATFULL on STN
AN 2008:10230 USPATFULL
TI Gastrin Releasing Peptide Compounds
IN Cappelletti, Enrico, Seregno (MI), ITALY
Lattuada, Luciano, Bussero (MI), ITALY
Linder, Karen E., Kingston, NJ, UNITED STATES
Marinelli, Edmund, Lawrenceville, NJ, UNITED STATES
Nanjappan, Palaniappa, Princeton, NJ, UNITED STATES
Nunn, Adrian D., Lambertville, NJ, UNITED STATES
Raju, Natarajan, Kendall Park, NJ, UNITED STATES
Ramalingam, Kondareddiar, Dayton, NJ, UNITED STATES
Swenson, Rolf E., Princeton, NJ, UNITED STATES
Tweadle, Michael, Princeton, NJ, UNITED STATES
Maddalena, Mary Ellen, Monmouth Jct., NJ, UNITED STATES
PA **BRACCO** IMAGING S.P.A., Milan, ITALY (non-U.S. corporation)
PI US-20080008649 A1 20080110
AI 2007US-000751337 A1 20070521 (11)
RLI Continuation-in-part of Ser. No. 2006US-000352156, filed on 10 Feb 2006, PENDING Continuation-in-part of Ser. No. 2005US-000165721, filed on 24 Jun 2005, PENDING Continuation-in-part of Ser. No. 2004US-000828925, filed on 20 Apr 2004, PENDING Continuation-in-part of Ser. No. 2003WO-US0041328, filed on 24 Dec 2003, PENDING Continuation-in-part of Ser. No. 2003US-000341577, filed on 13 Jan 2003, GRANTED, Pat. No. US-----7226577
DT Utility
FS APPLICATION
LREP KRAMER LEVIN NAFTALIS & FRANKEL LLP, INTELLECTUAL PROPERTY DEPARTMENT, 1177 AVENUE OF THE AMERICAS, NEW YORK, NY, 10036, US
CLMN Number of Claims: 34
ECL Exemplary Claim: 1
DRWN 103 Drawing Page(s)
LN.CNT 9734
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB New and improved compounds for use in diagnostic imaging or therapy having the formula M-N--O--P-G, wherein M is a metal chelator having the structure: ##STR1## wherein R1-R5 and EG are as defined herein (in the form complexed with a metal radionuclide or not), N--O--P is the linker containing at least one non-alpha amino acid with a cyclic group, at least one substituted bile acid or at least one non-alpha amino acid, and G is the GRP receptor targeting peptide. In the preferred embodiment, M is an Aazta metal chelator or a derivative thereof. Methods for imaging a patient and/or providing radiotherapy or phototherapy to a patient using the compounds of the invention are also provided. Methods and kits for preparing a diagnostic imaging agent from the compound is further provided. Methods and kits for preparing a radiotherapeutic agent are further provided. Novel methods of treating prostate tumors or of delaying the progression of prostate tumors are also provided, including, methods of treating bone or soft tissue metastases of prostate cancer, methods for treating hormone sensitive and hormone refractory prostate cancer, methods for delaying the progression of hormone sensitive prostate cancer, for facilitating combination therapy in patients with hormone sensitive prostate cancer and for decreasing aberrant vascular permeability in patients with hormone sensitive prostate cancer.

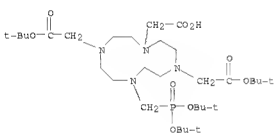
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **808112-83-6P**
(preparation of polyazamacrocyclic compds. as radiopharmaceutical imaging agents)
RN 808112-83-6 USPATFULL
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)

L53 ANSWER 3 OF 6 USPATFULL on STN
AN 2006:280986 USPATFULL
TI Gastrin releasing peptide compounds
IN Cappelletti, Enrico, Seregno (MI), ITALY
PA **Bracco** Imaging S.p.A., Milan, ITALY, 20134 (non-U.S. corporation)
PI US-20060239923 A1 20061026
AI 2003US-000542202 A1 20031224 (10)
2003WO-US0041328 20031224
20060206 PCT 371 date
RLI Continuation-in-part of Ser. No. 2003US-000341577, filed on 13 Jan 2003, PENDING
DT Utility
FS APPLICATION
LREP KRAMER LEVIN NAFTALIS & FRANKEL LLP, INTELLECTUAL PROPERTY DEPARTMENT, 1177 AVENUE OF THE AMERICAS, NEW YORK, NY, 10036, US
CLMN Number of Claims: 87
ECL Exemplary Claim: 1
DRWN 86 Drawing Page(s)
LN.CNT 6418
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB New and improved compounds for use in diagnostic imaging or therapy having the formula M-N--O--P-G, wherein M is an optical label or a metal chelator (in the form complexed with a metal radionuclide or not), N--O--P is the linker, and G is the GRP receptor targeting peptide. Methods for imaging a patient and/or providing radiotherapy or phototherapy to a patient using the compounds of the invention are also provided. Methods and kits for preparing a diagnostic imaging agent from the compound is further provided. Methods and kits for preparing a radiotherapeutic agent is further provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
(preparation of gastrin-releasing peptide compds. for use as diagnostic imaging agents or radio therapeutic agents)

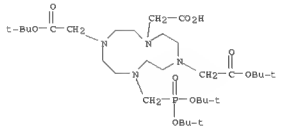
L53 ANSWER 4 OF 6 USPATFULL on STN
AN 2006:280977 USPATFULL
TI Gastrin releasing peptide compounds
IN Cappelletti, Enrico, Seregno (MI), ITALY
Lattuada, Luciano, Bussero (MI), ITALY
Linder, Karen E., Kingston, NJ, UNITED STATES
Marinelli, Edmund, Lawrenceville, NJ, UNITED STATES
Nanjappan, Palaniappa, Princeton, NJ, UNITED STATES
Nunn, Adrian D., Lambertville, NJ, UNITED STATES
Raju, Natarajan, Kendall Park, NJ, UNITED STATES
Ramalingam, Kondazeddiar, Dayton, NJ, UNITED STATES
Swenson, Rolf E., Princeton, NJ, UNITED STATES
Tweedle, Michael F., Princeton, NJ, UNITED STATES
PA **Bracco** Imaging S.p.A., Milan, ITALY (non-U.S. corporation)
PI US-20060239914 A1 20061026
AI 2006US-000352156 A1 20060210 (11)
RLI Continuation-in-part of Ser. No. 2005US-000165721, filed on 24 Jun 2005, PENDING Continuation-in-part of Ser. No. 2004US-000828925, filed on 20 Apr 2004, PENDING Continuation-in-part of Ser. No. 2003WO-US0041328, filed on 24 Dec 2003, PENDING Continuation-in-part of Ser. No. 2003US-000341577, filed on 13 Jan 2003, PENDING
DT Utility
FS APPLICATION
LREP KRAMER LEVIN NAFTALIS & FRANKEL LLP, INTELLECTUAL PROPERTY DEPARTMENT, 1177 AVENUE OF THE AMERICAS, NEW YORK, NY, 10036, US
CLMN Number of Claims: 57
ECL Exemplary Claim: 1
DRWN 101 Drawing Page(s)
LN.CNT 9414
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB New and improved compounds for use in diagnostic imaging or therapy having the formula M-N--O--P-G, wherein M is a metal chelator having the structure: ##STR1## wherein R1-R5 and FG are as defined herein (in the form complexed with a metal radionuclide or not), N--O--P is the linker containing at least one non-alpha amino acid with a cyclic group, at least one substituted bile acid or at least one non-alpha amino acid, and G is the GRP receptor targeting peptide. In the preferred embodiment, M is an Aazta metal chelator or a derivative thereof. Methods for imaging a patient and/or providing radiotherapy or phototherapy to a patient using the compounds of the invention are also provided. Methods and kits for preparing a diagnostic imaging agent from the compound is further provided. Methods and kits for preparing a radiotherapeutic agent are further provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **808112-83-6P**
(preparation of gastrin-releasing peptide compds. for use as diagnostic imaging agents or radio therapeutic agents)
RN 808112-83-6 USPATFULL
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)



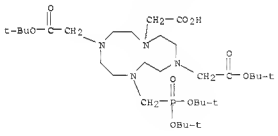
L53 ANSWER 5 OF 6 USPATFULL on STN
AN 2006:20998 USPATFULL
TI Gastrin releasing peptide compounds
IN Cappelletti, Enrico, Seregno, ITALY
Lattuada, Luciano, Bussero, ITALY
Linder, Karen E., Kingston, NJ, UNITED STATES
Marinelli, Edmund, Lawrenceville, NJ, UNITED STATES
Nanjappan, Palaniappa, Princeton, NJ, UNITED STATES
Raju, Natarajan, Kendall Park, NJ, UNITED STATES
Ramalingam, Kondareddiar, Dayton, NJ, UNITED STATES
Swenson, Rolf E., Princeton, NJ, UNITED STATES
Tweedle, Michael, Princeton, NJ, UNITED STATES
PA **Bracco** Imaging S.p.A., Milan, ITALY (non-U.S. corporation)
PI US-20060018830 A1 20060126
AI 2005US-000165721 A1 20050624 (11)
RLI Continuation-in-part of Ser. No. 2004US-000828925, filed on 20 Apr 2004, PENDING Continuation-in-part of Ser. No. 2003WO-US0041328, filed on 24 Dec 2003, PENDING Continuation-in-part of Ser. No. 2003US-000341577, filed on 13 Jan 2003, PENDING
DT Utility
FS APPLICATION
LREP KRAMER LEVIN NAFTALIS & FRANKEL LLP, INTELLECTUAL PROPERTY DEPARTMENT, 1177 AVENUE OF THE AMERICAS, NEW YORK, NY, 10036, US
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 101 Drawing Page(s)
LN.CNT 7857
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB New and improved compounds for use in diagnostic imaging or therapy having the formula M-N--O--P-G, wherein M is a metal chelator having the structure: ##STR1## wherein R1-R5 and FG are as defined herein (in the form complexed with a metal radionuclide or not), N--O--P is the linker containing at least one non-alpha amino acid with a cyclic group, at least one substituted bile acid or at least one non-alpha amino acid, and G is the GRP receptor targeting peptide. In the preferred embodiment, M is an Aazta metal chelator or a derivative thereof. Methods for imaging a patient and/or providing radiotherapy or phototherapy to a patient using the compounds of the invention are also provided. Methods and kits for preparing a diagnostic imaging agent from the compound is further provided. Methods and kits for preparing a radiotherapeutic agent are further provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **808112-83-6P**
(preparation of gastrin-releasing peptide compds. for use in diagnostic imaging or therapy)
RN 808112-83-6 USPATFULL
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)



L53 ANSWER 6 OF 6 USPATFULL on STN
AN 2004:320572 USPATFULL
TI Gastrin releasing peptide compounds
IN Cappelletti, Enrico, Seregno, ITALY
Lattuada, Luciano, Bussero, ITALY
Linder, Karen E., Kingston, NJ, UNITED STATES
Marinelli, Edmund, Lawrenceville, NJ, UNITED STATES
Nanjappan, Palaniappa, Dayton, NJ, UNITED STATES
Raju, Natarajan, Kendall Park, NJ, UNITED STATES
Ramalingam, Kondareddiar, Dayton, NJ, UNITED STATES
Swenson, Rolf E., Princeton, NJ, UNITED STATES
Tweedle, Michael, Princeton, NJ, UNITED STATES
PI US-20040253225 A1 20041216
AI 2004US-000828925 A1 20040420 (10)
RLI Continuation-in-part of Ser. No. 2003WO-US0041328, filed on 24 Dec 2003, PENDING Continuation of Ser. No. 2003US-000341577, filed on 13 Jan 2003, PENDING
DT Utility
FS APPLICATION
LREP KRAMER LEVIN NAFTALIS & FRANKEL LLP, INTELLECTUAL PROPERTY DEPARTMENT, 919 THIRD AVENUE, NEW YORK, NY, 10022
CLMN Number of Claims: 107
ECL Exemplary Claim: 1
DRWN 99 Drawing Page(s)
LN.CNT 7461
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB New and improved compounds for use in diagnostic imaging or therapy having the formula M-N--O--P-G, wherein M is an optical label or a metal chelator (in the form complexed with a metal radionuclide or not), N--O--P is the linker, and G is the GRP receptor targeting peptide. Methods for imaging a patient and/or providing radiotherapy or phototherapy to a patient using the compounds of the invention are also provided. Methods and kits for preparing a diagnostic imaging agent from the compound is further provided. Methods and kits for preparing a radiotherapeutic agent are further provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **808112-83-6P**
(preparation of gastrin-releasing peptide compds. for use as diagnostic imaging agents or radiotherapeutic agents)
RN 808112-83-6 USPATFULL
CN 1,4,7,10-Tetraazacyclododecane-1,4,7-triacetic acid, 10-[[bis(1,1-dimethylethoxy)phosphinyl]methyl]-, 1,7-bis(1,1-dimethylethyl) ester (CA INDEX NAME)



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L1             1 US20080124270/PN

     FILE 'REGISTRY' ENTERED AT 14:50:39 ON 15 APR 2009

     FILE 'HCAPLUS' ENTERED AT 14:50:40 ON 15 APR 2009
L2             TRA L1 1- RN :       37 TERMS

     FILE 'REGISTRY' ENTERED AT 14:50:40 ON 15 APR 2009
L3            37 SEA L2
L4            34 L3 AND RSD/FA
L5            17 L4 AND P/ELS
L6               STR
L7            26 L6
L8            14 L5 AND NC2NC2NC2NC2/ES
L9           438 L6 FULL
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L13              QUE PD<=20021223
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L14          102 E3-8
                 E FAN H/AU
L15          483 E3-23
                 E FAN HONG/AU
L16          723 E3-58
                 E LATTUADA L/AU
L17           40 E3-4
                 E RAMALINGAM K/AU
L18          268 E3-5,E11-12
                 E SWENSON R/AU
L19           55 E3-14
                 E SWENSON ROLF/AU
L20           70 E3-5
L21          503 BRACCO/CS,PA
L22            6 L11 AND L14-21
L23            5 L11 AND L14-20
L24            1 L22 NOT L23

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L25            7 L11 AND L12-13
L26            7 L22-25

     FILE 'REGISTRY' ENTERED AT 15:49:24 ON 15 APR 2009
L27          430 L9 NOT L10
L28              STR
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L30          318 L28 FULL SUB=L9
                 SAV TEM J430FIV/A L30
L31          317 L30 NOT L10
L32          113 L27 NOT L31

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L33          228 L31
L34           41 L32
L35          169 L33 AND L12-13
L36           22 L34 AND L12-13
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L37           33 E1-33
L38          264 E1-264
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L39           1 C19H37N4O9P AND L37

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L40           1 L39

     FILE 'REGISTRY' ENTERED AT 16:49:27 ON 15 APR 2009
L41         110 L38 AND P=3
L42         154 L38 NOT L41

     FILE 'USPATFULL, USPATOLD, USPAT2' ENTERED AT 16:54:30 ON 15 APR 2009
L43           6 L10
L44           1 L43 AND L12-13
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                E FAN H/AU
L46           4 E3-4
                E FAN HONG/AU
L47          20 E3-6
                E LATTUADA L/AU
L48          21 E4
                E RAMALINGAN K/AU
L49           1 E5
                E SWENSON R/AU
L50           3 E5
L51         372 L21
L52           6 L43 AND L45-51
L53           6 L44,L52

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